

SPIDERS FROM TAIWAN I. TWO NEW SPECIES OF THE GENUS *OCTONOBA* (ARANEAE: ULOBORIDAE)

By

Hajime YOSHIDA

Higashi Junior High School, Mogami-machi, Yamagata 999-61

Synopsis

YOSHIDA, Hajime (Higashi Junior High School, Mogami-machi, Yamagata 999-61) : Spiders from Taiwan I. Two new species of the genus *Octonoba* (Araneae: Uloboridae). *Acta arachnol.*, 30 : 71-74 (1982).

Two new species, *Octonoba spinosa* and *O. taiwanica*, are described from Taiwan.

Until now, many publications dealing with the spiders of Taiwan have been published. Particularly, SAITO (1933) and KAYASHIMA (1943) reported many species, but faunal research is still insufficient.

In the summer of 1977 and the spring of 1979, I had opportunities to collect spiders in various parts of Taiwan. A rich collection of spiders is now under the course of examination. Recently I reported a few findings on Taiwanese spiders (YOSHIDA, 1979a, b), and from now on the results of my studies will be published little by little when the identification of the species is satisfactorily made.

In this paper, I wish to describe two new species of the genus *Octonoba* OPELL, 1979. I recognize 12 species of this genus from Japan, but they are not distributed in Taiwan. OPELL (1979) reported a species of *Octonoba* from Taiwan which is different from the present new species.

Holotypes and each one of the paratypes are deposited in the collection of the Arachnological Society of East Asia, Ibaraki, Osaka.

Before going further, I wish to express many hearty thanks to Prof. Takeo YAGINUMA for his constant guidance and kindly reading of the original manuscript, and to Mr. Mamoru YOSHIMURA and Mr. Hozumi TANAKA for their kind

assistance in this study.

***Octonoba spinosa* n. sp.**

(Figs. 1-3)

MALE (holotype): Total length 3.12 mm. Carapace length 1.20 mm; width 0.88 mm. Eye sizes and interdistances (mm): AME 0.10; ALE 0.06; PME 0.09; PLE 0.09; AME-AME 0.09; AME-ALE 0.11; PME-PME 0.17; PME-PLE 0.10; ALE-PLE 0.12. MOA length 0.29 mm. First femur 1.75 mm; patella and tibia 2.06 mm; metatarsus 1.75 mm; tarsus 0.69 mm. Second femur 1.13 mm; fourth 1.06 mm. Basal color greyish-brown. Carapace with thin dark stripes. Chelicerae light-brown with fangs brown. Maxillae and labium dusky, pale apically. Sternum dusky marginally. Legs greyish-brown: first legs dusky; second, third and fourth tibiae and metatarsi with median and distal dusky bands; tarsi dusky. Abdomen with white pigments and dusky blotches. Palpal organs: Sa (spur "a" of median apophysis) concave with apical grooves; Sb (spur "b") pointed and curved inside; Sc (spur "c") large and tapering to apex.

FEMALE (paratype): Total length 4.06 mm. Carapace length 1.34 mm; width 1.22 mm. Eye sizes and interdistances (mm): AME 0.10; ALE 0.07; PME 0.09; AME-AME 0.12; AME-ALE 0.12; PME-PME 0.22; PME-PLE 0.12; ALE-PLE 0.12. MOA length 0.27 mm. First femur 2.38 mm; patella and tibia 2.63 mm; metatarsus 2.31 mm; tarsus 0.94 mm. Second femur 1.25 mm; fourth 1.38 mm. In light specimens coloration similar to male, but in dark specimens basal color blackish-brown with light pigments. Epigynum with a pair of crescent projections.

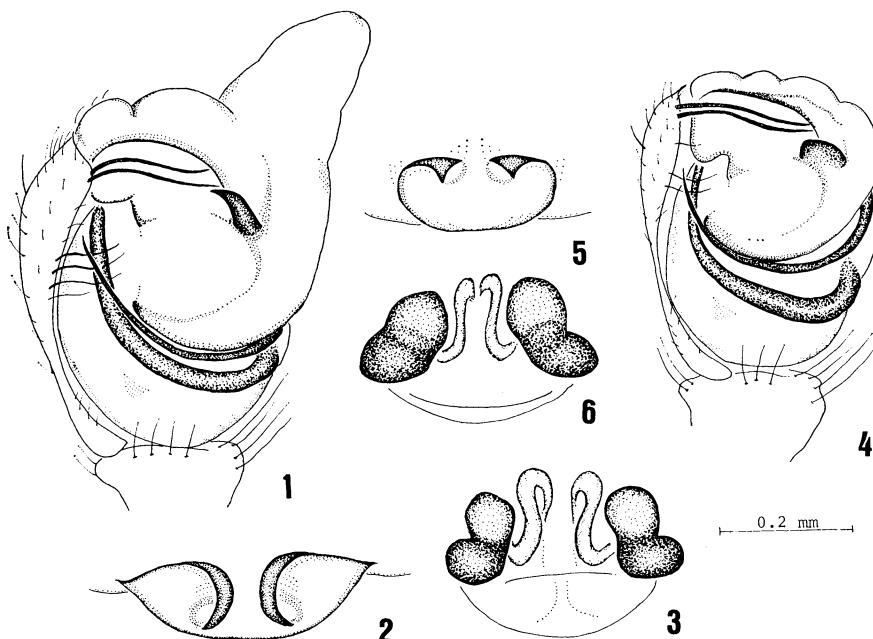
Material examined: Holotype: ♂, Yangmingshan, Taipei-city, Taiwan, 4-IV-1979, H. YOSHIDA. Paratypes: 2♀, same data as holotype; 1♂, Yangmingshan, 26-III-1979, H. YOSHIDA, 1♀, 28-VII-1977, M. YOSHIMURA; 1♀, Wulai, Tai Pei County, 6-VII-1977, H. YOSHIDA.

Distribution: Northern Taiwan (Tai Pei County).

Remarks: In structure and coloration the new species is similar to the species of the Ryukyus, especially to *O. grandiprojecta* YOSHIDA, but is distinguishable from the latter by the shape of Sb of male palpus which is thin and pointed.

***Octonoba taiwanica* n. sp.**

(Figs. 4-6)



Figs. 1-3. *Octonoba spinosa* n. sp. 1. Male palpus, ventral view. 2. Female epigynum, ventral view. 3. Female genitalia, dorsal view.

Figs. 4-6. *O. taiwanica* n. sp. 4. Male palpus, ventral view. 5. Female epigynum, ventral view. 6. Female genitalia, dorsal view.

MALE (holotype): Total length 3.00 mm. Carapace length 1.17 mm; width 1.05 mm. Eye sizes and interdistances (mm): AME 0.10; ALE 0.06; PME 0.07; PLE 0.09; AME-AME 0.06; AME-ALE 0.10; PME-PME 0.17; PME-PLE 0.10; ALE-PLE 0.10. MOA length 0.27 mm. First femur 1.94 mm; patella and tibia 2.06 mm; metatarsus 1.94 mm; tarsus 0.75 mm. Second femur 1.13 mm; fourth 1.13 mm. Carapace with wide stripes. Chelicerae dusky with brown fangs. Maxillae and labium dusky, pale apically. Sternum dusky. Legs greyish-brown: first and second femora with longitudinal dusky stripes; the other segments with median and distal dusky bands. Abdomen dusky with dorsal white pigments. Palpal organs: Sa concave with apical grooves; Sb round; Sc absent.

FEMALE (paratype): Total length 4.31 mm. Carapace length 1.24 mm; width 1.07 mm. Eye sizes and interdistances (mm): AME 0.10; ALE 0.06; PME 0.09; PLE 0.09; AME-AME 0.09; AME-ALE 0.11; PME-PME 0.17; PME-PLE 0.11; ALE-PLE 0.10. MOA length 0.22 mm. First femur 2.31 mm; patella and tibia

2.63 mm; metatarsus 2.38 mm; tarsus 0.88 mm. Second femur 1.25 mm; fourth 1.44 mm. In darker specimens coloration is similar to that of male, but in light specimens legs with indistinct bands and abdomen almost grey without dusky blotches. Epigynum with a pair of apical projections.

Material examined: Holotype: ♂, Shuishe (beside Sun Moon Lake), Nan Tow County, Taiwan, 29-III-1979, H. YOSHIDA. Paratypes: 2♀, Shuishe, 27-III-1979, H. YOSHIDA; 1♂, Meitsi, 30-III-1979, H. YOSHIDA; 1♀, Nanshantsi, 30-III-1979, H. YOSHIDA.

Distribution: Central Taiwan (Nan Tow County).

Remarks: This species is similar to *O. yaginumai* YOSHIDA, but is distinguished from the latter by the shape of Sa of male palpus with apical grooves and the rounded Sb.

摘要

吉田 哉 (山形県最上郡最上町立東中学校) : 台湾のクモ I. トウキョウウズグモ属の2新種。

1977年夏および1979年春に台湾でクモ類の採集をおこなうことができた。その標本にもとづいて現在研究中である。今回は、トウキョウウズグモ属の2新種, *Octonoba spinosa* と *O. taiwanica* を記載することにした。日本から本属のクモとして12種が確認されているが、これらは台湾には分布しない。OPELL (1979) は台湾から *Octonoba* の1種を報告しているが、ここに記載した種とは異なる。

References

KAYASHIMA, I., 1943. Spiders of Taiwan. 1-65, pl. 1-4. Tōto-shoseki, Tokyo.
 OPELL, B. D., 1979. Revision of the genera and tropical American species of the family Uloboridae. *Bull. Mus. comp. Zool.*, 148: 443-549.
 SAITO, S., 1933. Notes on the spiders from Formosa. *Trans. Sapporo nat. Hist. Soc.*, 13: 32-60, pl. 3.
 YOSHIDA, H., 1978a. On some Formosan spiders (1). *Atypus*, 71: 21-28.
 ——— 1978b. On some Formosan spiders (2). *Atypus*, 72: 8-13.
 ——— 1980. Six Japanese species of the genera *Octonoba* and *Philoponella* (Araneae: Uloboridae). *Acta arachnol.*, 29: 57-64.
 ——— 1981. Seven new species of the genus *Octonoba* (Araneae: Uloboridae) from the Ryukyus, Japan. *Acta arachnol.*, 30: 21-32.